

LPGX Filterable Gas Eliminator



Overview

Filterable gas eliminator is an attachment device of liquid flowmeter, when use a volumetric flowmeter to measure the flow, if the liquid mixes with gas, the liquid and the gas mixed therein will be measured at the same time, although the flowmeter has high accuracy, it will be meaningless. Therefore the gas mixed in the measured liquid must be removed before the measured liquid being put into flowmeter. Quick release type of filterable gas eliminator can play a role in separating and excluding gas in the liquid, and filtering the impurities and particles in the liquid, thus ensuring the normal operation of the meter and meter accuracy.

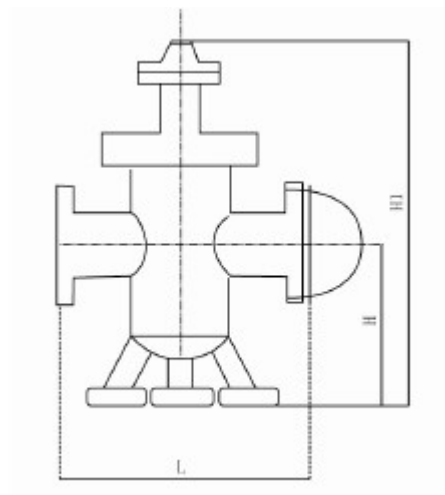
Working Principle

After the refined oil entering the gas eliminator, filter screen can remove solid impurities, at the same time, the refined oil enters in the filterable gas eliminator vessel from the entrance, it will hit the baffle, then cause pressure loss, and change the direction of fluid flow. The liquid flows upward, shunted by the sparse oil board, so the oil and gas could be separated further, the gas rises to the top, forming a vapor space, with the expansion of the gas space, the oil and gas interface declines, down to a certain height so that to make the float valve device work, exhaust gases, with gas exhausted, oil and gas interface rises so that the float valve will close, and this repeating action will achieve the purpose of separation.

Main Technical Parameters

Nominal Diameter (mm)	40~300mm
Nominal Pressure	1.6~6.3Mpa
Medium Temperature	20-120℃
Medium Gravity	$\geq 0.74\text{g/cm}^2$
Medium Viscosity	$< 500000\text{pa.s}$
Pressure Loss	$\leq 0.07\text{MPa}$

Dimension Figure



Model	Nominal Diameter mm	Nominal Pressure MPa	Installing Dimension			Amount of Gas Eliminators
			H1	H	L	
LPGX40-TD	40	1.6 2.5 4.0 6.3	820	300	450 (320)	1
LPGX50-TD	50		820	400	450 (320)	1
LPGX80-TD	80		950	400	600 (420)	1
LPGX100-TD	100		1020	450	600 (520)	1
LPGX150-TD	150		1300	600	800 (720)	1
LPGX200-TD	200		1550	700	1000 (800)	1
LPGX250-TD	250		1820	760	1100 (1000)	2
LPGX300-TD	300		2050	845	1200 (1070)	2

Ordering Model

Model and Technical Parameters				
Model	Type	Nominal Diameter	Nominal Pressure	Illustration
LPGX				Filterable gas eliminator
	K			Quick release
		40~300		40~300mm
			1.6~6.3	1.6~6.3Mpa